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L23: Entry 40 of 42

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Oct 3, 1989

DERWENT-ACC-NO: 1989-330080

DERWENT-WEEK: 198945

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TITLE: Multilayered composite particles - comprise organic titanate treated solid adhesive layer particles to form titanium di:oxide layer, coated with hot melt

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PRIORITY-DATA: 1988JP-0075650 (March 28, 1988)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	JP 01247155 A	October 3, 1989		006	
<input type="checkbox"/>	JP 95025150 B2	March 22, 1995		000	B32B009/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 01247155A	March 28, 1988	1988JP-0075650	
JP 95025150B2	March 28, 1988	1988JP-0075650	
JP 95025150B2		JP 1247155	Based on

INT-CL (IPC): B32B 9/00

ABSTRACTED-PUB-NO: JP 01247155A

BASIC-ABSTRACT:

Multilayered composite particles comprises solid particles, a TiO₂ layer formed by treating the surface of particles with an organic titanate, and hot melt adhesive layer coated on the surfaces of TiO₂ layer.

Pref. the solid particles are of spherical form having a dia. 0.1-1000 microns, elliptical form having a minor dia. 0.1-1000 microns, and a ratio of major dia./minor dia./minor dia. 1-10 or cylindrical form having a dia. 0.1-1000 microns and a ratio of length/dia. 150. They are e.g., divinyl benzene/acrylate ester copolymer, diacryl diacryl phthalate resin, silica glass or borosilicate glass. The Ti cpd. is pref. tetrapropoxy Ti, tetrabutoxy Ti, tetrakis(2-ethylhexoxy) Ti, dipropoxybis (acetylacetonato) Ti or dibutoxy-bis(triethanolaminato) Ti, etc. coated on the surfaces of solid particles by dissolving in a solvent (e.g., n-hexane, cyclohexane, cyclohexane, benzene, toluene, etc.), impregnating the soln. onto the surface of particles and evapg. the solvent. The hot melt adhesive is e.g., olefinic resin (e.g., polyethylene wax, polyethylene, ethylene/vinyl acetate copolymer, ethylene/vinyl acetate/CO terpolymers, etc.) or polyalkyl acrylate, polybutadiene, etc.

USE/ADVANTAGE - The multi-layered composite particles are coated of resin having poor adhesion of solid particles, such as polyolefin, without peeling. They provide high dispersibility of uncoagulated particles when used as a spacer for a liq. crystal cell.

ABSTRACTED-PUB-NO: JP 01247155A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: A89 L03 P73
CPI-CODES: A12-A05; A12-L03B; L03-G05B;